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Pesticide Fact Sheet Number 77.1: Linalool

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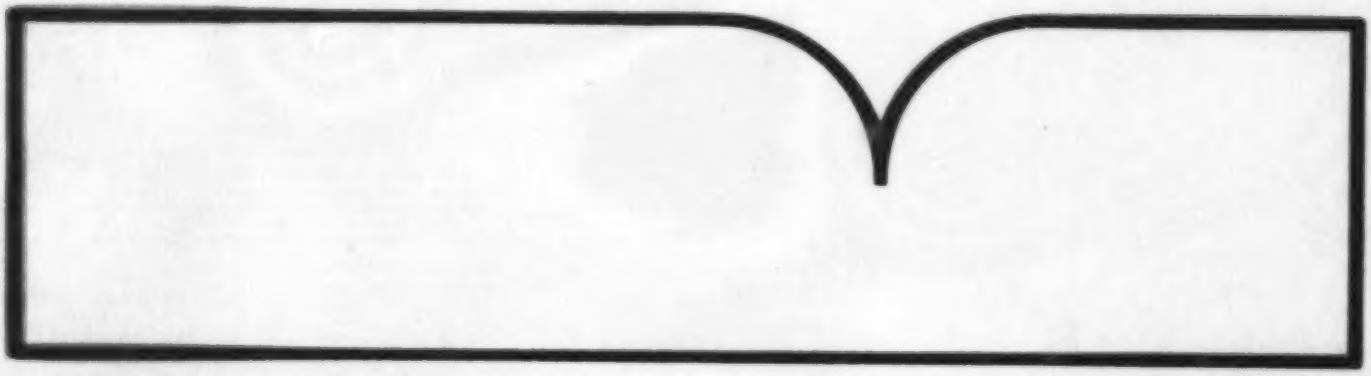

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15. Supplementary Notes

16. Abstract (Limit: 200 words)

This document contains up-to-date chemical information, including a summary of the Agency's regulatory position and rationale, on a specific pesticide or group of pesticides. A Fact Sheet is issued after one of the following actions has occurred.

1. Issuance or reissuance of a registration standard,
2. Issuance of each special review document,
3. Registration of a significantly changed use pattern,
4. Registration of a new chemical, or
5. An immediate need for information to resolve controversial issues relating to a specific chemical or use pattern.

17. Document Analysis a. Descriptors

Pesticides, regulations, Chemical Information Fact Sheet, Use Patterns, Science Findings

b. Identifiers/Open-Ended Terms

c. COSATI Field/Group

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Office of Pesticides and Toxic Substances
Office of Pesticide Programs (TS-766C)
Washington, DC 20460

EPA

Pesticide Fact Sheet

Name of Chemical: LINALOOL
Reason for Issuance:
Date Issued: April 15, 1986
Fact Sheet Number: 77.1

1. Description of Chemical

Chemical Name: Linalool
Trade Name: Linalool 925
Common Names: linalool
EPA Shaughnessy No.: 128838
Chemical Abstracts Service (CAS) Number: 78-70-6
Year of Initial Registration: 1985
Pesticide Type: natural oil
Chemical Family: acyclic terpene alcohols
U.S. Producer: Pet Chemicals, Inc.

2. Use Patterns and Formulations

Application Sites: indoor use only on dogs and cats and their bedding
Types of formulations: liquid
Types/methods of application: pump spray

3. Science Findings

Chemical Characteristics: liquid with a fresh floral woody odor; boiling point, 379 °F; molecular weight, 154.24; specific gravity, 0.863; practically insoluble in water; miscible with alcohol and ether.

Toxicity Characteristics: acute oral toxicity (4.9 and 4.13 g/kg for male and female rats, respectively); acute dermal toxicity (2 g/kg albino rabbits); acute inhalation toxicity (LC_{50} less than 2.95 mg/L); not a sensitizer. No subacute or chronic studies are required since linalool is generally recognized as safe under 21 CFR 182.60 (synthetic flavoring substances and adjuvants).

Environmental Characteristics: none reported; no data required to support the manufacturing-use or indoor end-use product.

Ecological Characteristics: slightly toxic to rainbow trout and bluegill (28.8 and 36.8 ppm, respectively); slightly toxic to aquatic invertebrates (36.7 ppm); practically nontoxic to birds (LC_{50} greater than 5620 ppm in bobwhite quail).

4. Summary of Science Findings

Use Classification: unrestricted.
Formulation or Labeling Restrictions: indoor use only.

5. Summary of Data Gaps

None

6. Contact Person at EPA

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